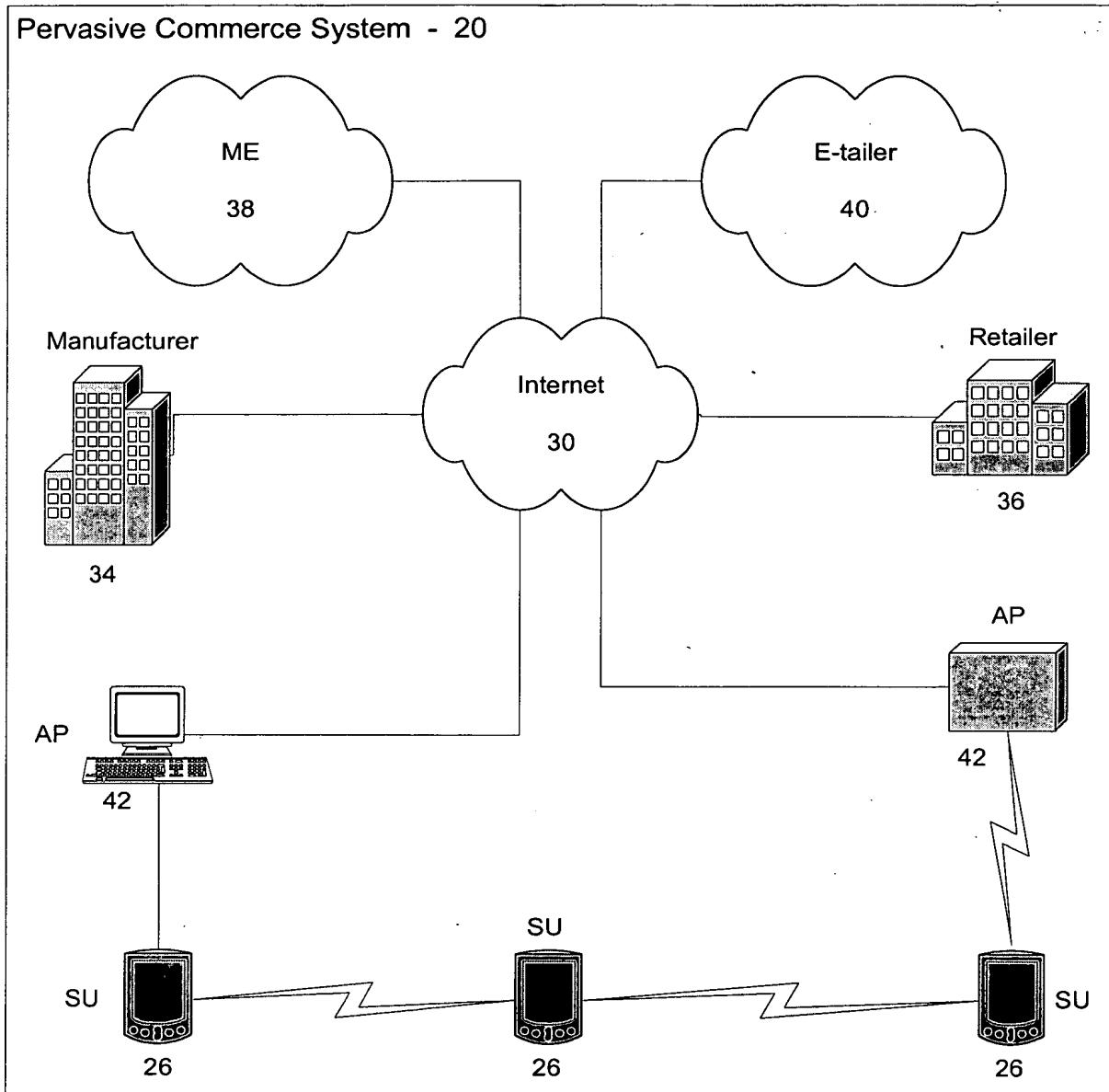


**FIGURE 1 - Pervasive Commerce System**



**FIGURE 2 - Generic Case Structure**

<b>Item Data Block ("I" Block)</b>	
<b>Case Information</b>	ID, version, etc., for the entire case.
<b>Link Information</b>	Relationship to other cases.
<b>Item Information</b>	ID, name, description, etc., for the item.
<b>ME Public Key</b>	Case key or ME key version, used for encryption and whose private key peer is used in "I" and "O" Block signatures.
<b>Distributor Public Key</b>	Assigned to or received from Distributor; private key is used in "D" Block signature.
<b>Block Signature</b>	ME signature of "I" Block

<b>Object Block ("O" Block)</b>	
<b>Object Information</b>	ID, type, description, encoding, size, etc., for the contained digital object.
<b>Object</b>	Image, music, digital asset, etc.
<b>Block Signature</b>	ME signature of "O" Block (via private key peer to ME Public Key).

<b>Distributor Data Block ("D" Block)</b>	
<b>Distributor Information</b>	ID, name, information, etc., for Distributor.
<b>Item Information</b>	Encrypted wholesale price, etc., of item.
<b>Item Options</b>	Selectable features and options of item.
<b>Mutation Rules</b>	Controlling application behavior for case mutation (e.g., expiration date).
<b>Passer Public Key</b>	Assigned to or received from Passer, whose private peer is used in "P" Block signature.
<b>Block Signature</b>	Distributor signature of "D" Block (via private key peer to Distributor Public Key).

<b>Passer Data Block ("P" Block)</b>	
<b>Passer Information</b>	ID, name, etc., of Passer.
<b>Item Information</b>	Sales price, comments, etc., about item.
<b>Receiver Public Key</b>	Assigned to or received from Receiver.
<b>Block Signature</b>	Passer signature of "P" Block (via private key peer to Passer Public Key).

<b>Receiver Data Block ("R" Block)</b>	
<b>Receiver Information</b>	ID, name, etc., of Receiver.
<b>Block Signature</b>	Receiver signature of "R" Block (optional).

### FIGURE 3 - Pervasive Commerce Case Layout

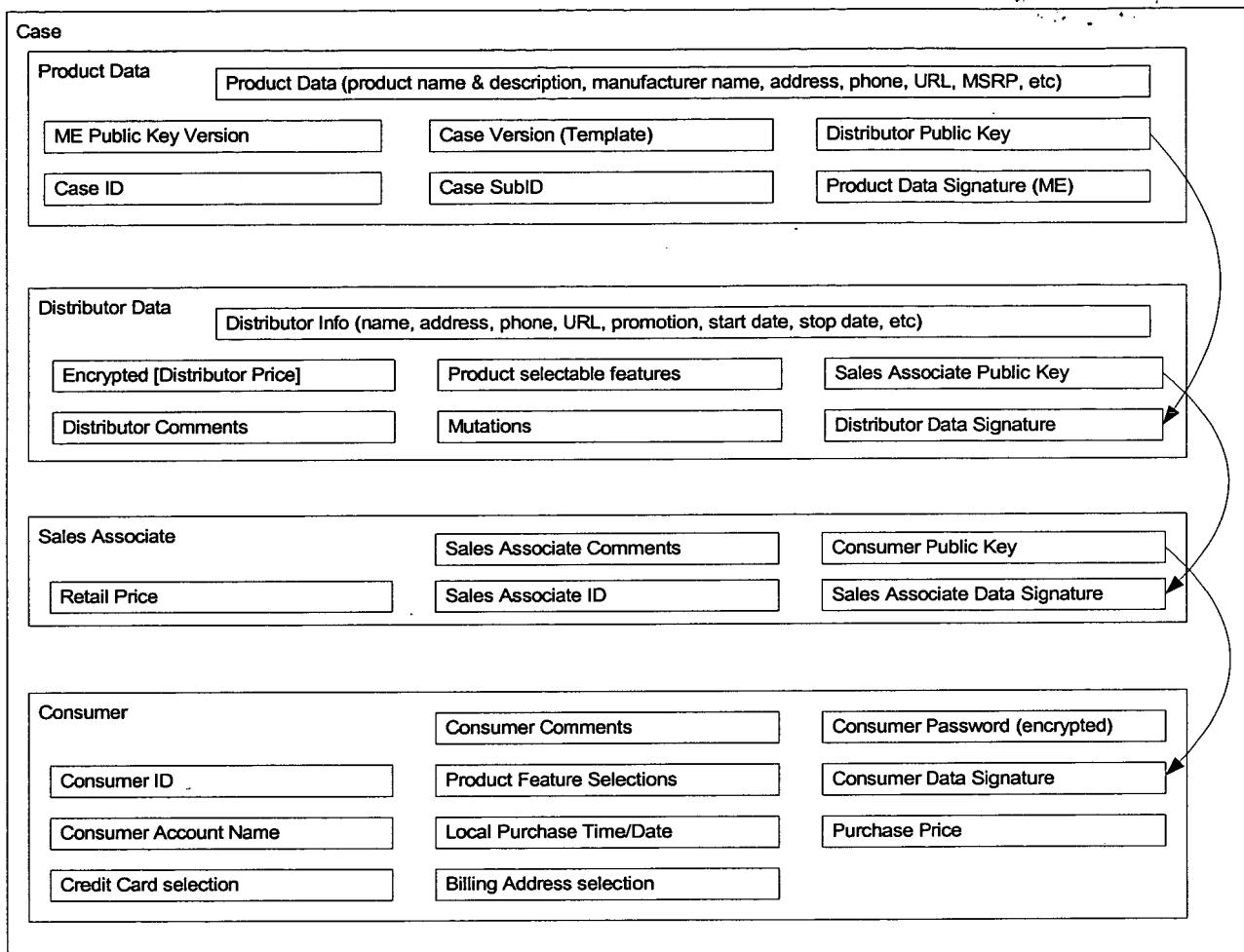
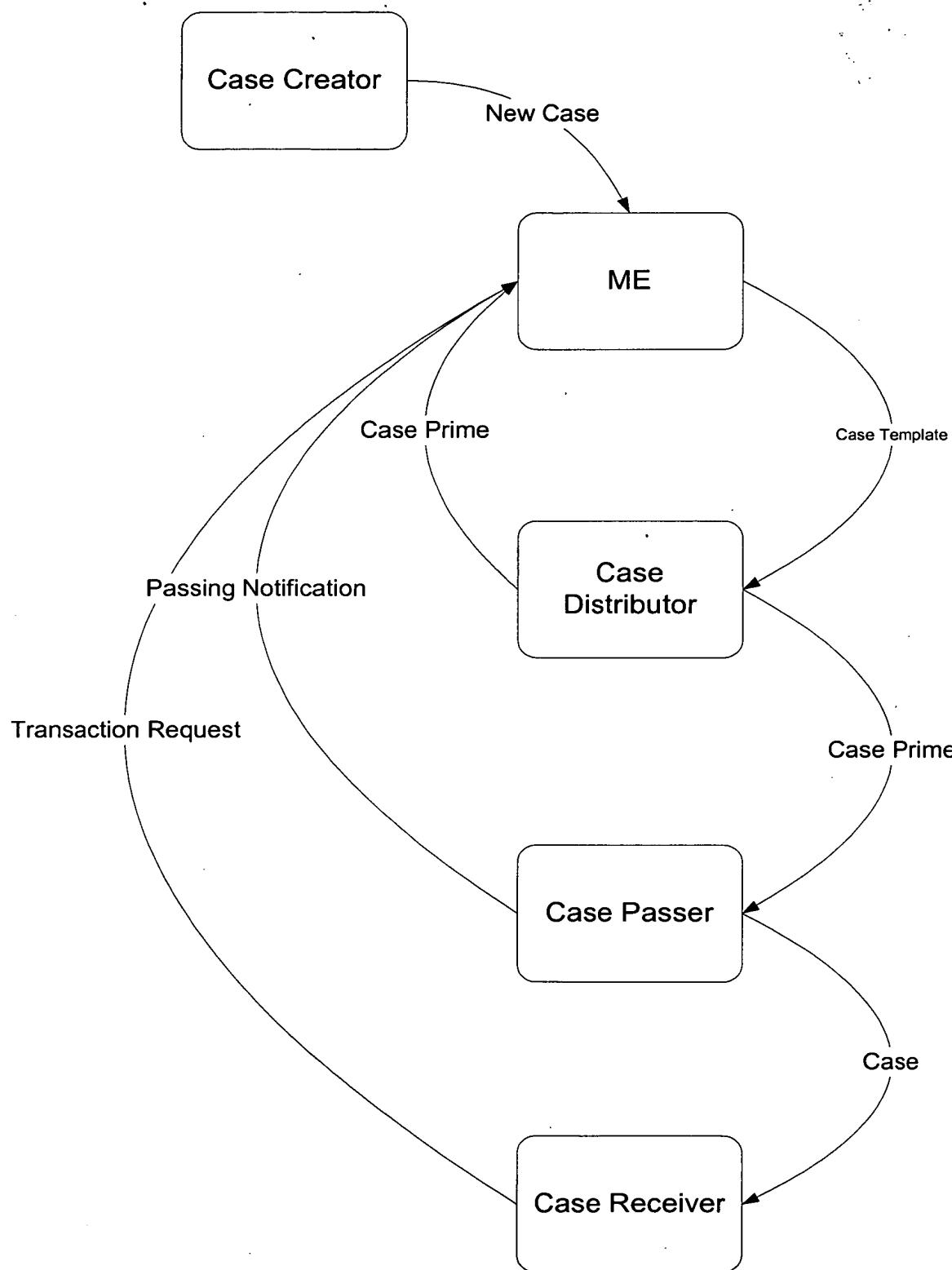


FIGURE 4 – Generic Case Flow



**FIGURE 5 - New Case Template Layout**

Case

Item Data					
Product Data (product name & description, manufacturer name, address, phone, URL, MSRP, etc)					
ME Public Key Version	Case Version (Template)	Distributor Public Key			
Case ID	Case SubID	Product Data Signature (ME)			
Dynamic Data					
Product Feature Selection Choices					

**FIGURE 6 - Case Prime Layout**

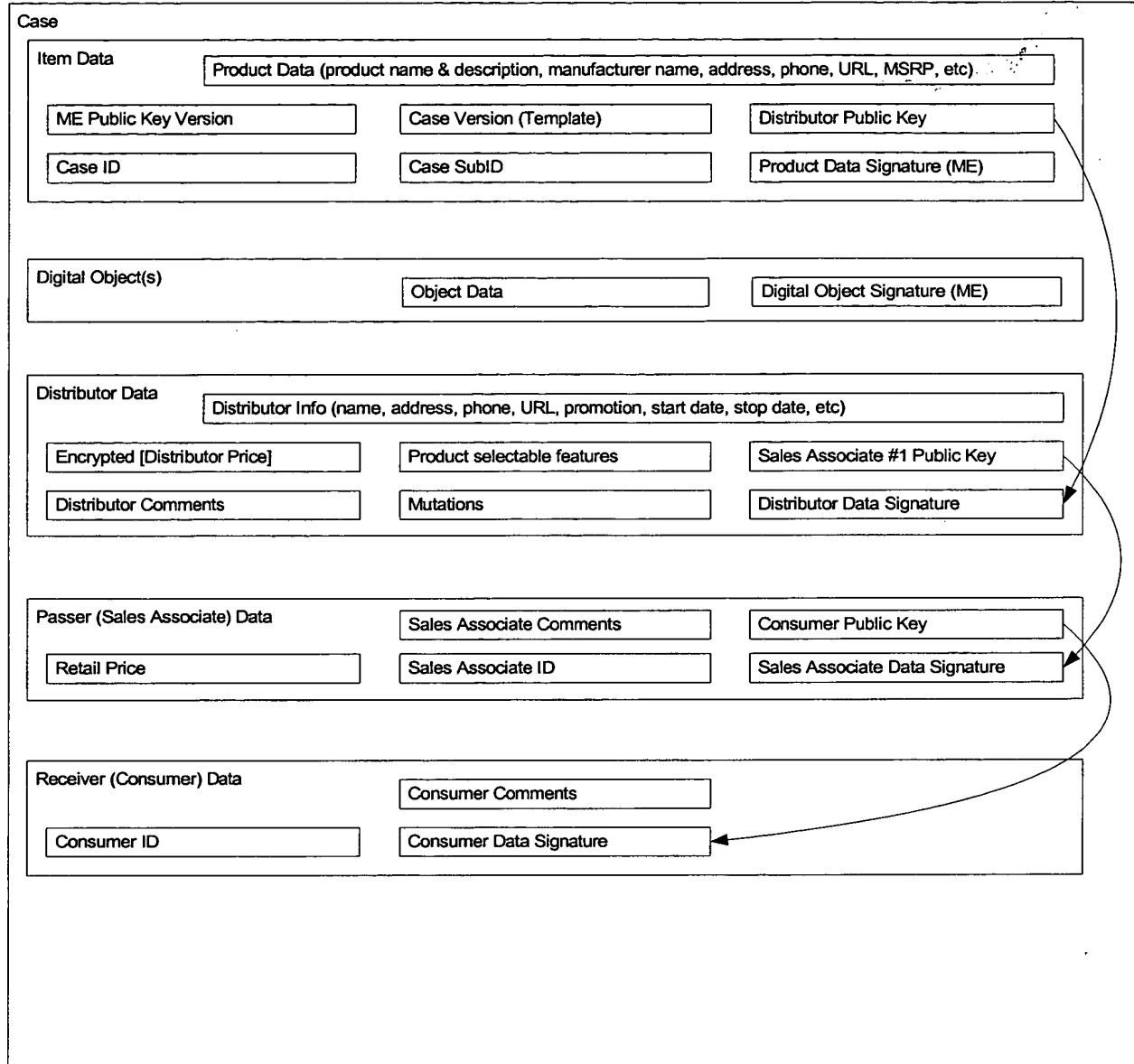
Case

Item Data					
Product Data (product name & description, manufacturer name, address, phone, URL, MSRP, etc)					
ME Public Key Version	Case Version (Template)	Distributor Public Key			
Case ID	Case SubID	Product Data Signature (ME)			
Digital Object(s)					
Object Data					
Digital Object Signature (ME)					
Distributor Data					
Distributor Info (name, address, phone, URL, promotion, start date, stop date, etc)					
Encrypted [Distributor Price]	Product selectable features	Sales Associate Public Key			
Distributor Comments	Mutations	Distributor Data Signature			
Dynamic Data					
Distributor Price					

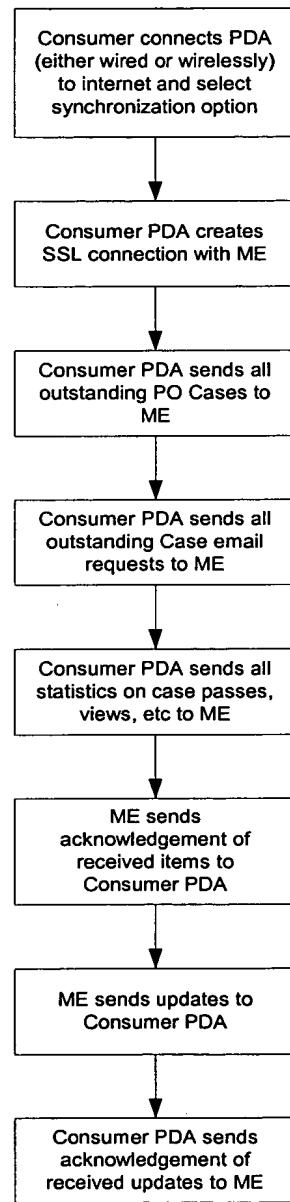
## FIGURE 7 - Passed Case Layout

Case												
<table border="1"><thead><tr><th>Item Data</th><th colspan="3">Product Data (product name &amp; description, manufacturer name, address, phone, URL, MSRP, etc)</th></tr></thead><tbody><tr><td>ME Public Key Version</td><td>Case Version (Template)</td><td>Distributor Public Key</td><td></td></tr><tr><td>Case ID</td><td>Case SubID</td><td colspan="2">Product Data Signature (ME)</td></tr></tbody></table>	Item Data	Product Data (product name & description, manufacturer name, address, phone, URL, MSRP, etc)			ME Public Key Version	Case Version (Template)	Distributor Public Key		Case ID	Case SubID	Product Data Signature (ME)	
Item Data	Product Data (product name & description, manufacturer name, address, phone, URL, MSRP, etc)											
ME Public Key Version	Case Version (Template)	Distributor Public Key										
Case ID	Case SubID	Product Data Signature (ME)										
<table border="1"><thead><tr><th>Digital Object(s)</th><th>Object Data</th><th>Digital Object Signature (ME)</th></tr></thead><tbody><tr><td></td><td></td><td></td></tr></tbody></table>	Digital Object(s)	Object Data	Digital Object Signature (ME)									
Digital Object(s)	Object Data	Digital Object Signature (ME)										
<table border="1"><thead><tr><th>Distributor Data</th><th colspan="3">Distributor Info (name, address, phone, URL, promotion, start date, stop date, etc)</th></tr></thead><tbody><tr><td>Encrypted [Distributor Price]</td><td>Product selectable features</td><td>Sales Associate #1 Public Key</td><td></td></tr><tr><td>Distributor Comments</td><td>Mutations</td><td colspan="2">Distributor Data Signature</td></tr></tbody></table>	Distributor Data	Distributor Info (name, address, phone, URL, promotion, start date, stop date, etc)			Encrypted [Distributor Price]	Product selectable features	Sales Associate #1 Public Key		Distributor Comments	Mutations	Distributor Data Signature	
Distributor Data	Distributor Info (name, address, phone, URL, promotion, start date, stop date, etc)											
Encrypted [Distributor Price]	Product selectable features	Sales Associate #1 Public Key										
Distributor Comments	Mutations	Distributor Data Signature										
<table border="1"><thead><tr><th>Passer (Sales Associate) Data</th><th>Sales Associate Comments</th><th>Consumer Public Key</th></tr></thead><tbody><tr><td>Encrypted [Sales Associate Price]</td><td>Sales Associate ID</td><td>Sales Associate Data Signature</td></tr></tbody></table>	Passer (Sales Associate) Data	Sales Associate Comments	Consumer Public Key	Encrypted [Sales Associate Price]	Sales Associate ID	Sales Associate Data Signature						
Passer (Sales Associate) Data	Sales Associate Comments	Consumer Public Key										
Encrypted [Sales Associate Price]	Sales Associate ID	Sales Associate Data Signature										
<table border="1"><thead><tr><th>Dynamic Data</th><th>Sales Associate Price</th></tr></thead><tbody><tr><td></td><td></td></tr></tbody></table>	Dynamic Data	Sales Associate Price										
Dynamic Data	Sales Associate Price											

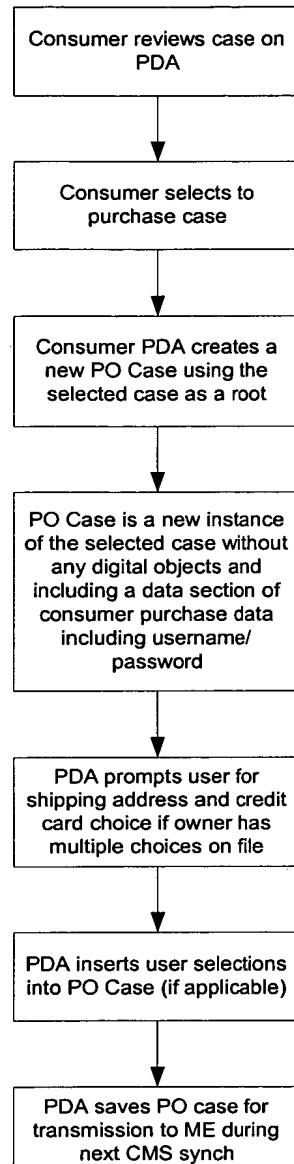
## FIGURE 8 - Complete Case Layout



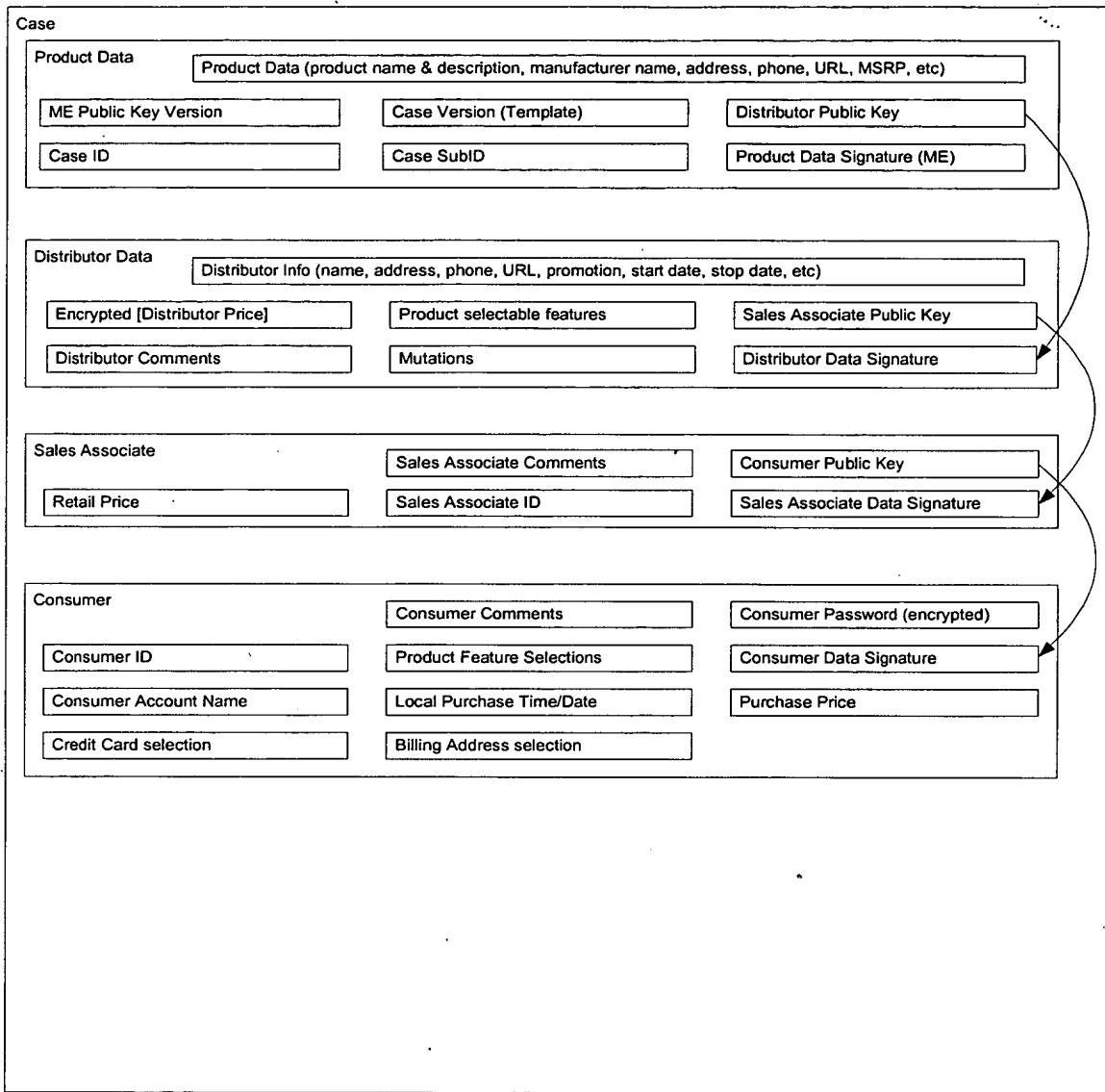
**FIGURE 9 - Consumer Synchronization of PDA with ME**



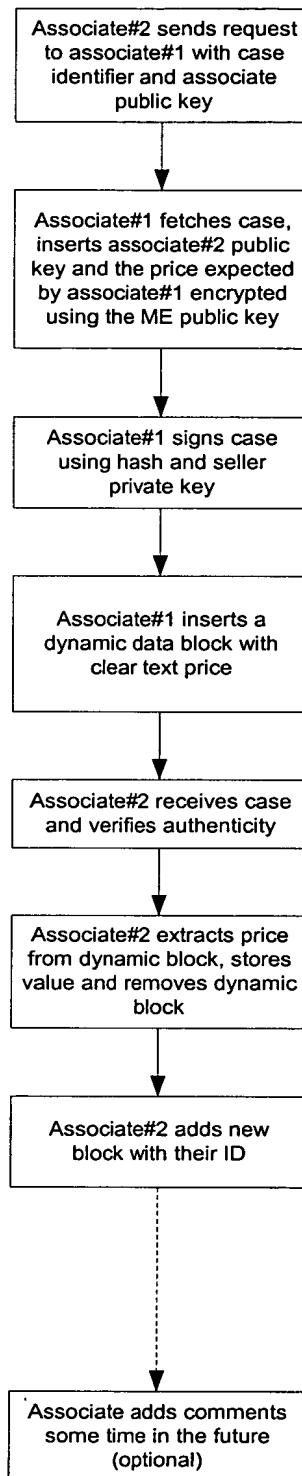
**FIGURE 10 - Consumer Makes Case-Based Purchase**



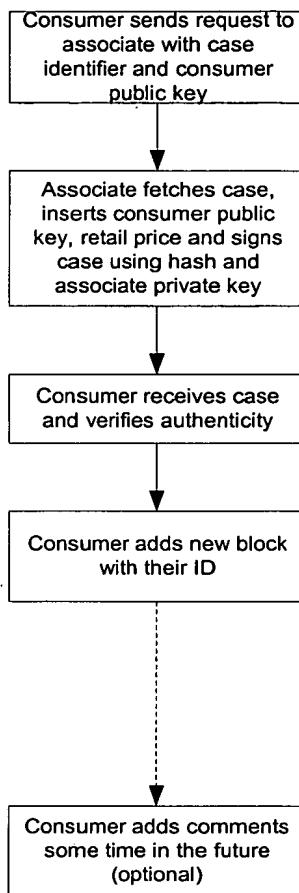
## FIGURE 11 - Purchase Request Case Layout



## FIGURE 12 - Sales Associate Passes Case to Sales Associate



### FIGURE 13 - Sales Associate Passes Case to Consumer



## FIGURE 14 - Consumer Passes Case to Consumer

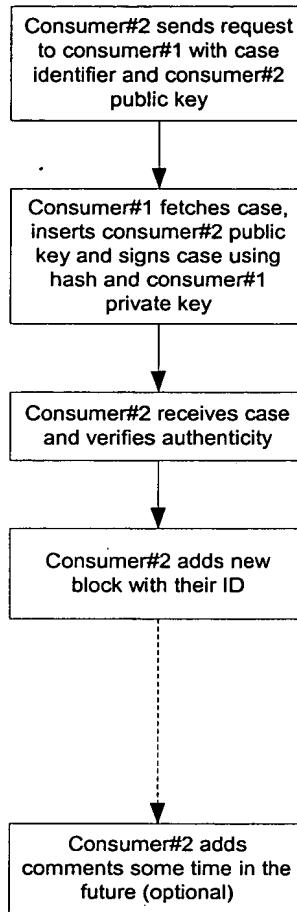
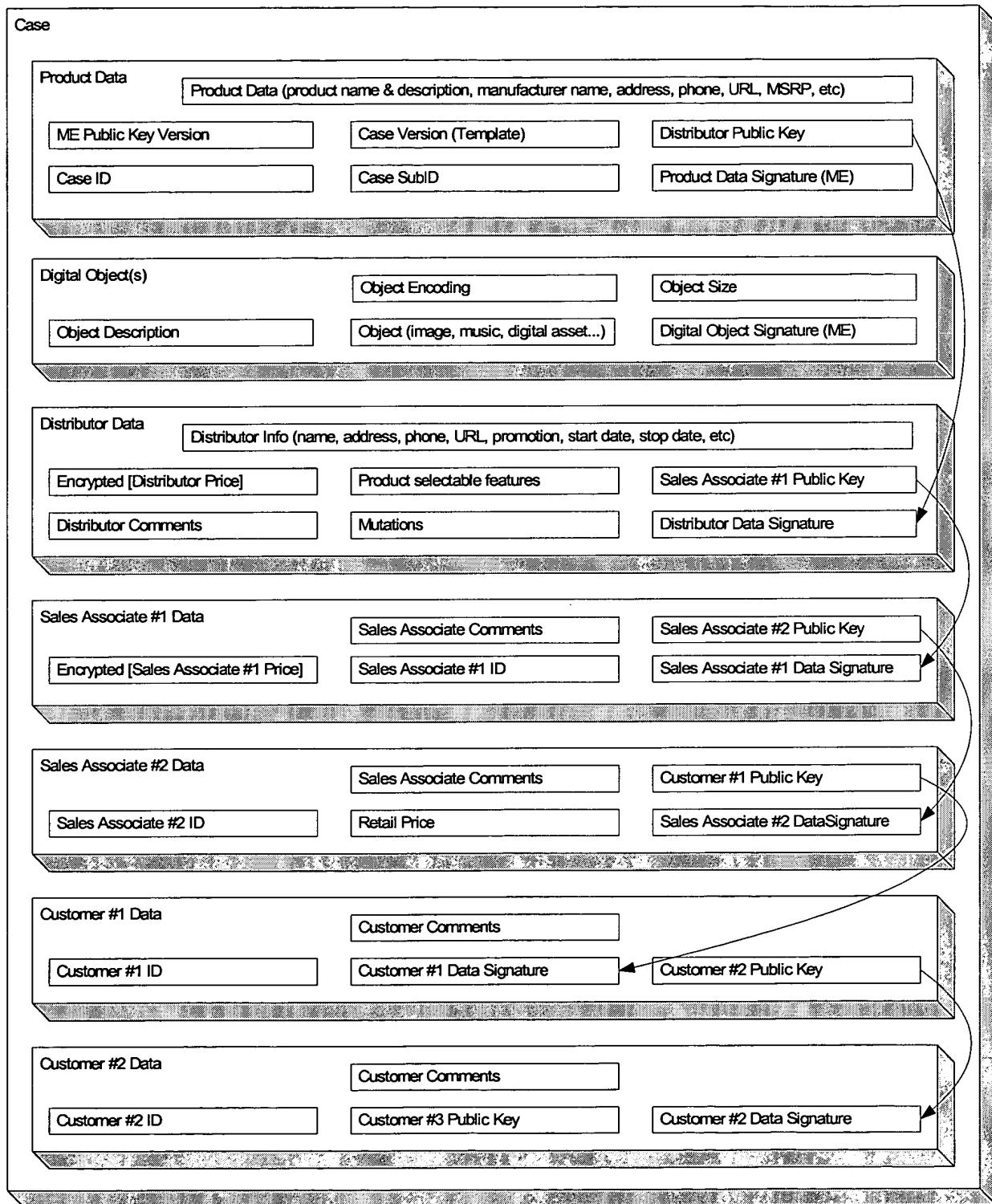
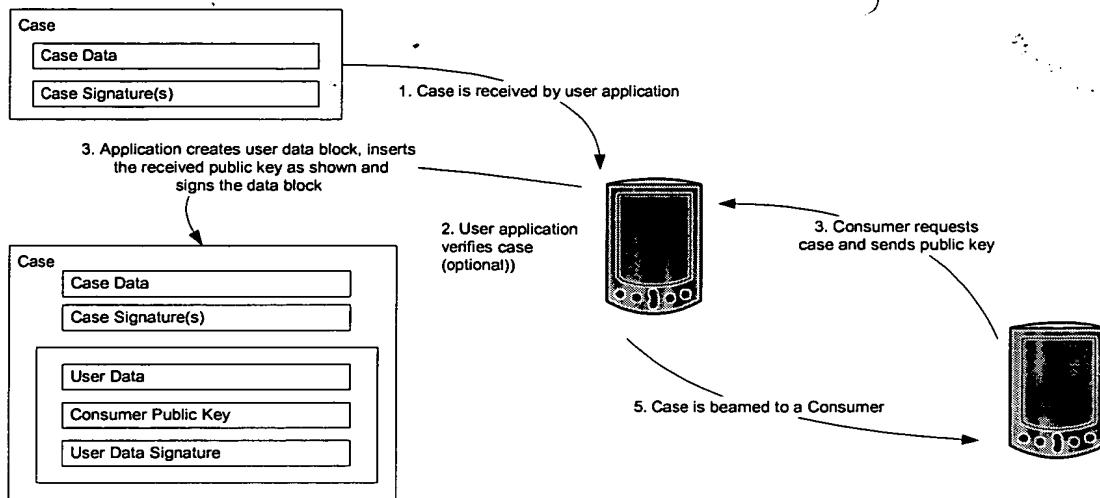
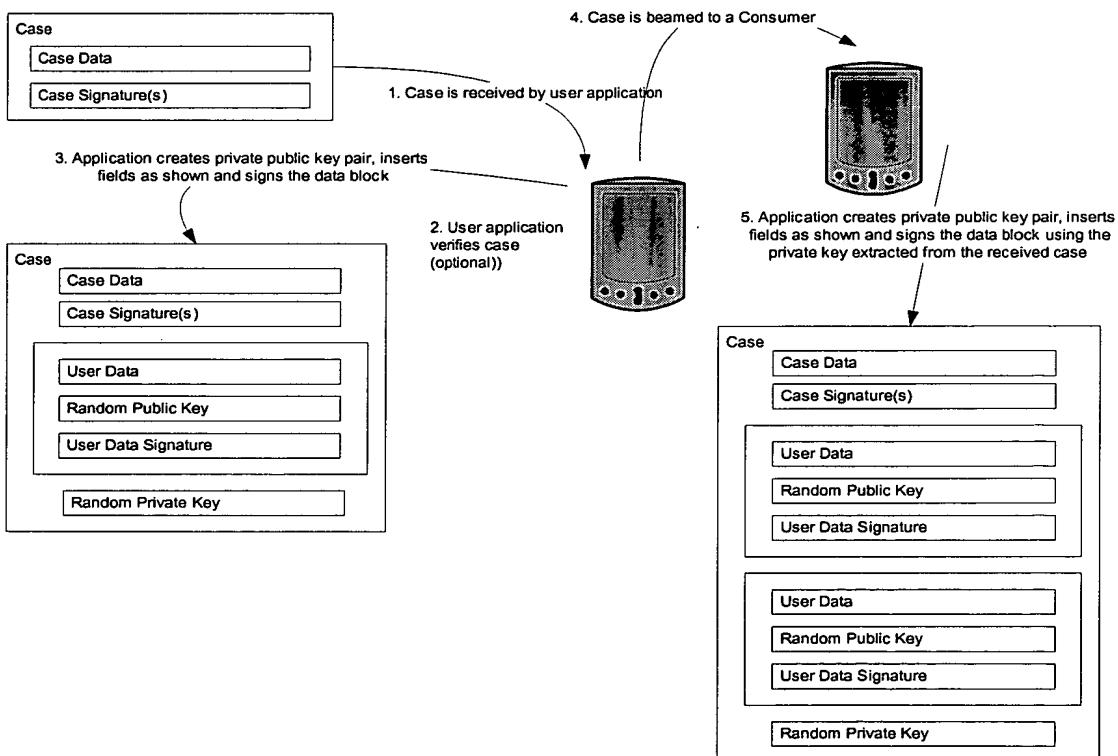


FIGURE 15 - Pervasive Commerce Case Layout





**FIGURE 16 – Receiver Selected Key Exchange**

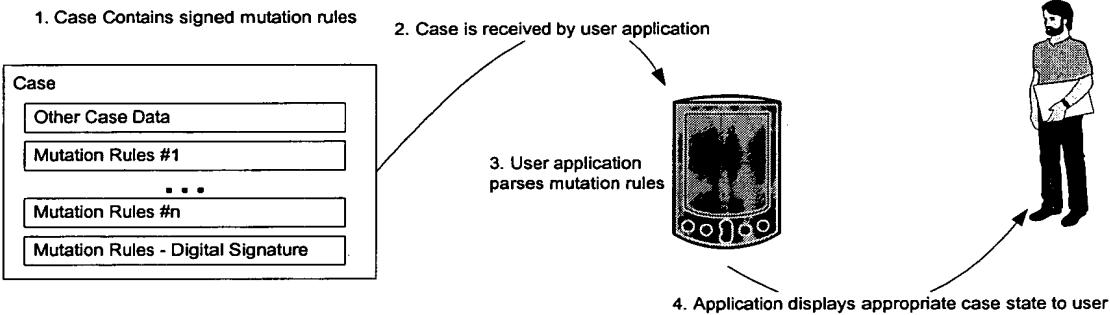


**FIGURE 17 – Passer Generated Key Exchange**

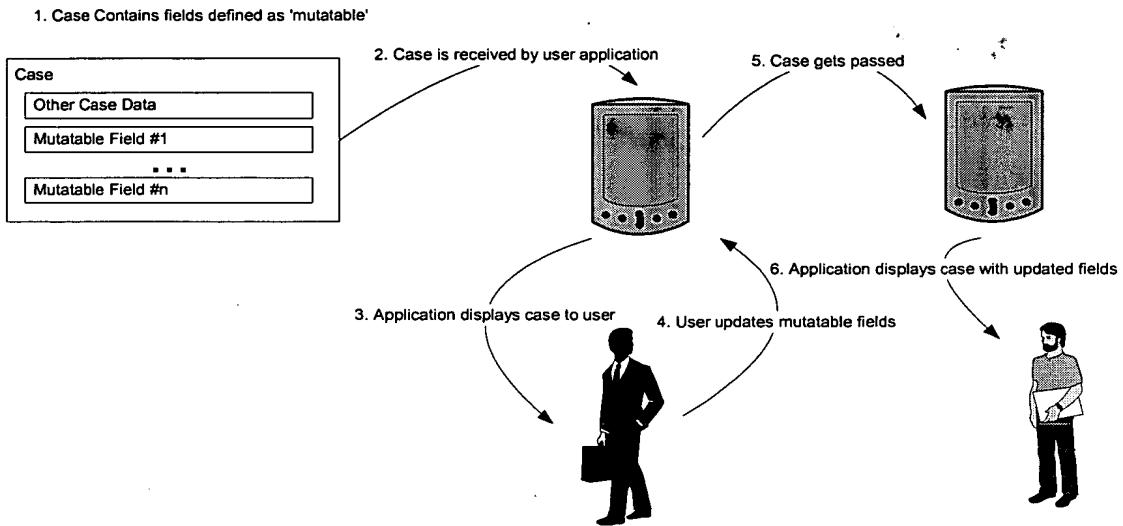
Digital Object

Object Description (text name and description of the contained digital object)
Object Type (image, video, music clip, music song, music album)
Object Encoding (jpeg, tiff, mpeg, mp3, midi, XrML, zip, pdf)
Object Size (total size of object in bytes)
Object (actual object data)
Digital Object Signature (ME)

**FIGURE 18 – DIGITAL OBJECT**



**FIGURE 19 – Trusted Case Mutation**



**FIGURE 20 – Untrusted Case Mutation**